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M	AA	5,763,175	06/09/1998	Brenner		435	6	11/17/1995
1	AB	5,605,662	02/25/1997	Heller et al.		422	68.1	11/01/1993
1	AC	6.051.380	04/18/2000	Sosnowski et	al	435	6	12/05/1997

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	AE/	0 305 145 A2	03/01/1989	European Patent Office	<b></b>		<del> </del>			
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h.	BD /	01/07657 A1	02/01/2001	WIPO		<u> </u>			

		OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)
M	BE /	Beier, M. et al., "Chemical Etiology of Nucleic Acid Structure: Comparing Pentopyranosyl-(2'→4') Oligonucleotides with RNA", Science, Vol. 283, pp. 699-703, Jan. 29, 1999.
	BF	Shchepinov, M.S. et al., "Oligonucleotide dendrimers: synthesis and use as polylabelled DNA probes", Nucleic Acids Research, Vol. 25, No. 22, pp. 4447-4454, 1997.
	BG	Gilles, P.N. et al., "Single nucleotide polymorphic discrimination by an electronic dot blot assay on semiconductor microchips", <i>Nature Biotechnology</i> , Vol. 17, pp. 365-370, Apr. 17, 1999.
	BH '	Liu, J. et al., "Template-directed photoligation of oligodeoxyribonucleotides via 4-thiothymidine", Nucleic Acids Research, Vol. 26, No. 13, pp. 3300-3304, 1998.
	ві ′	Green, N. M., "Advances in Protein Chemistry", pp. 85-132, 1975.
	BJ	Chilkoti, A., et al., "Molecular Origins of the Slow Streptavidin – Biotin Dissociation Kinetics", J. Am. Chem. Soc. Vol. 117, pp. 10622-10628, 1995
	вк	thu, B.C.F. et al., "Ligation of oligonucleotides to nucleic acids or proteins via disulfide bonds", Nucleic Acids Research, Vol. 16, No. 9, pp. 3671-3691, 1988.
	BL	Goodwin, J.T. et al., "Template-Directed Synthesis: Use of a Reversible Reaction", J. Am. Chem. Soc., Vol. 114, pp. 9197-9198, 1992.
	вм	Gryaznov, S.M. et al., "Chemical Ligation of Oligonucleotides in the Presence and Absence of a Template", J. Am. Chem. Soc., Vol. 115, pp. 3808-3809, 1993.
	BN /	Uhlmann et al., "Antisense Oligonucleotides: A New Therapeutic Principle", Chemical Abstracts, Vol. 90, No. 4, pp. 543-584, 1990.
	ВО	Pitsch, S. et al., "147. Why Pentose- and Not Hexose-Nucleic Acids?" Helv. Chim. Acta, Vol. 76, pp. 2161-2183, 1993.
	ВР	Pitsch, S. et al., "122. Pyranosyl-RNA ('p-RNA'): Base-Pairing Selectivity and Potential to Replicate", Helv. Chim. Acta, Vol. 78, pp. 1621-1635, 1995.
	BQ	Schlonvogt, I. et al., "188. Pyranosyl-RNA ('p-RNA'): NMR and Molecular-Dynamics Study of the Duplex Formed by Self-pairing of Ribopyranosyl-(C-G-A-A-T-T-C-G)" Helv. Chim. Acta, Vol. 79, pp. 2316-2345, 1996.
	BR ′	Bolli, M. et al., "131. Pyranosyl-RNA: Further Observations on Replication", Helv. Chim. Acta, Vol. 80, pp. 1901-1951, 1997.
N	BS	Westin, L., et al., "Antimicrobial Resistance and Bacterial Identification Utilizing a Microelectronic Chip Array", J. Clinical Microbiol., Vol. 39, No. 3, pp. 1097-1104, 2001.

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	sidered, whether or not citation is in conformance with MPEP 609; informance and not considered. Include a copy of this form with next
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## LIST OF PATENTS AND OTHER ITEMS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT

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Mark SCHWEITZER et al.	

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U.S. PATENT DOCUMENTS SUB FILING EXAMINER CLASS **CLASS** DATE INITIAL DOCUMENT NUMBER DATE NAME 6 12/29/1983 435 BT 4,563,419 01/07/1986 Ranki 6 06/13/1985 435 06/14/1988 Stabinsky ΒU 4,751,177 450 05/04/1987 204 ΒV 4,787,963 11/29/1988 MacConnell 03/07/1990 436 518 BW 5,143,854 09/01/1992 Pirrung et al. 435 6 06/18/1991 04/13/1993 Drmanac et al. 5,202,231 ВХ 6 06/02/1989 435 5,219,726 06/15/1993 Evans BY 05/27/1997 422 68.1 09/09/1994 Heller et al. ΒZ 5,632,957 08/05/1997 422 50 08/07/1995 CA 5,653,939 Hollis et al 435 6 06/05/1995 12/09/1997 Drmanac et al. CB 5,695,940 435 6 06/06/1995 04/28/1998 Fodor et al. CC 5,744,305 6 12/05/197 04/18/2000 Sosnowski et al. 435 CD 6,051,380

	FOREIGN PATENT DOCUMENTS							
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W	CE	2156074	10/02/1985	United Kingdom				
1/	CF	i∕ 86/03782	07/03/1986	WIPO				<u></u>
	CG	570/87	04/01/1987	Yugoslavia				
	CH	88/10400	05/03/1988	United Kingdom	_			
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OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)  W CO Anderson and Young, "Quantitative Filter Hybridization," Nucleic Acid Hybridization: A Practical Approach, Eds. B.D. Hames and S.J. Higgins (Washington, D.C.: IRL Press 1985) pp 73-111  P CP Bains, "Setting a Sequence to Sequence a Sequence," BioTechnology, 10:757-758 (1992)  CQ Basinaga, "Will DNA Chip', Speed-Genome filtrature?" Science, 253: 1489 (1991)  Beattie et al., "Genosensor Technology," The 1992 San Diego Conference: Genetic Recognition, pp 1-5 (Nov, 1992)  Beltz et al., "Isolation of Multigene Families and Determination of Homologies by Filter Hybridization Methods," Methods in Enzymology, 100:266-285 (1983)  W CP Brady, A et al., J.Chernsoc, Perkin Trans., 1, 1997, pp. 3237-3253  W CP Brady, A et al., J.Chernsoc, Perkin Trans., 1, 1997, pp. 3237-3253  W CP Cheng J. et al., Nature/Biotechnology, 16, 6/98, pp 541-546  Chu, B.C.F. et al., "Ligation of oligonucleotides to nucleic acids or proteins via disuffide bonds", Nucleic Acids Research, Vol. 16, No. 9, pp. 3671-3691, 1988.  W Conner et al., "Detection of Sickle Cell "-Globin Allele by Hybridization With Synthetic Oligonucleotides," Proc., Natl. Acad. Sci., USA, 80:278-282 (1983)  W Conner et al., "Detection of Sickle Cell "-Globin Allele by Hybridization: Theory of the Method," Genomics, 4:114-128 (1989)  W Z Conners, 4:114-128 (1989)  D mmanac et al., "Sequencing of Megabase Plus DNA by Hybridization: Theory of the Method," Genomics, 4:114-128 (1989)  D Fredericks P.M., et al., Materials Characterization Using FT-IR Spectra. Part 2: Mathematical & Statistical Considerations, Applied Spectroscopy, 39, 2, 1989, p. 311  D B Ghadiri, MR. et al., Nature, 366, 1993, pp. 324-327  D B Ghadiri, MR. et al., Nature, 366, 1993, pp. 324-327  D B Ghadiri, MR. et al., Nature, 366, 1993, pp. 324-327  D B Ghadiri, MR. et al., Nature, 366, 1993, pp. 324-327  D B Ghadiri, MR. et al., Nature, 366, 1993, pp. 324-327  D B Heller, MJ., IEEE Engineering in Medicine & Biology, March/April 1996,			WADERN BY
Bains, Setting a Sequence to Sequence a Sequence, Bio/Technology, 10:757-758 (1992)  CO Barinaga, "Will DNA Chip. Speed-Genome Intitative?", Science, 253:1489 (1991)  W Beattle et al., "Genosensor Technology," The 1992 San Diego Conference: Genetic Recognition, pp 1-5 (Nov, 1992)  W CS Beltz et al., "Isolation of Multigene Families and Determination of Homologies by Filter Hybridization Methods," Methods in Enzymology, 100:266-285 (1983)  W JCT Brady, A. et al., J.Chem.Soc., Perkin Trans., 1, 1997, pp. 3237-3253  W CO. Cheng, J. et al., Nature/Biotechnology, 16, 6/98, pp 541-546  Chu, B.C.F. et al., "Ligation of oligonucleotides to nucleic acids or proteins via disuffide bonds", Nucleic Acids Research, Vol. 16, No. 9, pp. 3671-3691, 1988.  W Conner et al., "Detection of Sickle Cell "3-Globin Ailele by Hybridization With Synthetic Oligonucleotides," Proc. Natl. Acad. Sci. USA, 80:278-282 (1983)  Conner et al., "Detection of Sickle Cell "3-Globin Ailele by Hybridization: A Strategy for Efficeint Large-Scale Sequencing", Science, 260: 1649-1652 (1993)  W D Conner et al., "Detection of Sickle Cell "3-Globin Ailele by Hybridization: Theory of the Method," Genomics, 4:114-128 (1989)  W Z D Conner et al., "Detection of Sickle Cell "3-Globin Ailele by Hybridization: Theory of the Method," Genomics, 4:114-128 (1989)  W Z Edman C.F. et al., Nucleic Acids Research, 25, 1997, 4907-4914  W D Fodor et al., "Sequencing of Megabase Plus DNA by Hybridization: Theory of the Method," (1992)  W D Fredericks P.M., et al., Nature, 366, 1993, pp 324-327  D Fredericks P.M., et al., Nature, 366, 1993, pp 324-327  D Goodwin, J.T. et al., Template-Directed Synthesis: Use of a Reversible Reaction", J. Am. Chem. Soc., Vol. 114, pp. 9197-9198, 1992.  W D Ghadin, M. R. et al., Nature, 366, 1993, pp 324-327  D Heller, M.J., IEEE Engineering In Medicine & Biology, March/April 1996, 100-104  An Active Microelectronics Device For Multiplex DNA Analysis  W D Huse, L., Lehn, J.M., Proc.Nat.Acad.Sci.USA, 94, 1997, pp 2106-2110  D K Lehn J.M., J.Che			OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)
Bains, Setting a Sequence to Sequence a Sequence, Bio/Technology, 10:757-758 (1992)  CO Barinaga, "Will DNA Chip. Speed-Genome Intitative?", Science, 253:1489 (1991)  W Beattle et al., "Genosensor Technology," The 1992 San Diego Conference: Genetic Recognition, pp 1-5 (Nov, 1992)  W CS Beltz et al., "Isolation of Multigene Families and Determination of Homologies by Filter Hybridization Methods," Methods in Enzymology, 100:266-285 (1983)  W JCT Brady, A. et al., J.Chem.Soc., Perkin Trans., 1, 1997, pp. 3237-3253  W CO. Cheng, J. et al., Nature/Biotechnology, 16, 6/98, pp 541-546  Chu, B.C.F. et al., "Ligation of oligonucleotides to nucleic acids or proteins via disuffide bonds", Nucleic Acids Research, Vol. 16, No. 9, pp. 3671-3691, 1988.  W Conner et al., "Detection of Sickle Cell "3-Globin Ailele by Hybridization With Synthetic Oligonucleotides," Proc. Natl. Acad. Sci. USA, 80:278-282 (1983)  Conner et al., "Detection of Sickle Cell "3-Globin Ailele by Hybridization: A Strategy for Efficeint Large-Scale Sequencing", Science, 260: 1649-1652 (1993)  W D Conner et al., "Detection of Sickle Cell "3-Globin Ailele by Hybridization: Theory of the Method," Genomics, 4:114-128 (1989)  W Z D Conner et al., "Detection of Sickle Cell "3-Globin Ailele by Hybridization: Theory of the Method," Genomics, 4:114-128 (1989)  W Z Edman C.F. et al., Nucleic Acids Research, 25, 1997, 4907-4914  W D Fodor et al., "Sequencing of Megabase Plus DNA by Hybridization: Theory of the Method," (1992)  W D Fredericks P.M., et al., Nature, 366, 1993, pp 324-327  D Fredericks P.M., et al., Nature, 366, 1993, pp 324-327  D Goodwin, J.T. et al., Template-Directed Synthesis: Use of a Reversible Reaction", J. Am. Chem. Soc., Vol. 114, pp. 9197-9198, 1992.  W D Ghadin, M. R. et al., Nature, 366, 1993, pp 324-327  D Heller, M.J., IEEE Engineering In Medicine & Biology, March/April 1996, 100-104  An Active Microelectronics Device For Multiplex DNA Analysis  W D Huse, L., Lehn, J.M., Proc.Nat.Acad.Sci.USA, 94, 1997, pp 2106-2110  D K Lehn J.M., J.Che	111	ÇO	Anderson and Young, "Quantitative Filter Hybridization," Nucleic Acid Hybridization - A Practical
CO Barinaga, "Will DNA Chip: Speed Genome Initiative?", Science: 283:1489 (1991)  W. CR Beattle et al., "Genosensor Technology," The 1992 San Diego Conference: Genetic Recognition, pp 1-5 (Nov, 1992)  W. CR Beltz et al., "Isolation of Multigene Families and Determination of Homologies by Filter Hybridization Methods," Methods in Enzymology, 100:266-285 (1983)  W. CT Brady, A. et al., J.Chem.Soc., Perkin Trans., 1, 1997, pp. 3237-3253  W. 20 Cheng J. et al., Nature/Biotechnology, 16, 6/98, pp 541-546  Chu, B.C.F. et al., "Ligation of oligonucleotides to nucleic acids or proteins via disulfide bonds", Nucleic Acids Research, Vol. 16, No. 9, pp. 3671-3691, 1988.  W. Conner et al., "Detection of Sickle Cell 3-Globin Atleie by Hybridization With Synthetic Oligonucleotides," Proc., Natl. Acad. Scl., USA, 80:278-282 (1993)  W. Conner et al., "DNA Sequence Determination by Hybridization: A Strategy for Efficeint Large-Scale Sequencing," Science, 260: 1649-1652 (1993)  Drmanac et al., "DNA Sequence Determination by Hybridization: Theory of the Method," Genomics, 4:114-128 (1989)  W. Z. Edman C.F. et al., Nucleic Acids Research, 25, 1997, 4907-4914  W. DA Fodor et al., "Light-Directed, Spatially Addressable Parallel Chemical Synthesis," Science, 251:767-773 (1992)  W. DB Fodor et al., "Multiplexed Biochemical Assays With Biological Chips," Nature, 364:555-556 (1993)  W. DB Fodor et al., Multiplexed Biochemical Assays With Biological Chips," Nature, 364:555-556 (1993)  DC Fredericks P.M., et al., Materials Characterization Using FT-IR Spectra. Part 2: Mathematical & Statistical Considerations, Applied Spectroscopy, 39, 2, 1989, p. 311  W. DB Ghadiri, M. R. et al., Nature, 366, 1993, pp 324-327  DE Goodwin, J.T. et al., "Template-Directed Synthesis: Use of a Reversible Reaction", J. Am. Chem. Soc., Vol. 114, pp. 9197-9198, 1992.  DB Hayakawa Y. et al., Jam.Chem.Soc. 112, 1990, 1691  DB Hayakawa Y. et al., Nature Medicine, vol. 2, no. 7, 1996, 753-759  DK Lehn J.M., J.Chem.Soc. Chem. Commun., 49, 1990  Miculka, C. et al., E			
## Jer Beattie et al., "Genosensor Technology." The 1992 San Diego Conference: Genetic Recognition, pp 1-5 (Nov., 1992)  ## Jer Beltz et al., "Isolation of Multigene Families and Determination of Homologies by Filter Hybridization Methods." Methods in Enzymology, 100:266-285 (1983)  ## Jer Brady, A. et al., J.Chem.Soc., Perkin Trans., 1, 1997, pp. 3237-3253  ## Jer Cheng J. et al., Nature/Biotechnology, 16, 6/98, pp 541-546  ## Chu, B.C.F. et al., "Ligation of oligonucleotides to nucleic acids or proteins via disulfide bonds", Nucleic Acids Research, Vol. 16, No. 9, pp. 3671-3691, 1988.  ## Conner et al., "Detection of Sickle Cell "-Globin Allele by Hybridization With Synthetic Oligonucleotides." Proc. Natl. Acad. Sci, USA, 80:278-282 (1983)  ## Conner et al., "Day Sequence Determination by Hybridization: A Strategy for Efficient Large-Scale Sequencing," Science, 260: 1649-1652 (1993)  ## Prmanac et al., "Sequencing of Megabase Plus DNA by Hybridization: Theory of the Method," Genomics, 4:114-128 (1989)  ## 22 Edman C.F. et al., Nucleic Acids Research, 25, 1997, 4907-4914  ## DA Fodor et al., "Multiplexed Biochemical Assays With Biological Chips," Nature, 364:555-556 (1993)  ## DB Fodor et al., "Multiplexed Biochemical Assays With Biological Chips," Nature, 364:555-556 (1993)  ## DB Fodor et al., Multiplexed Biochemical Assays With Biological Chips," Nature, 364:555-556 (1993)  ## DB Ghadiri, M. R. et al., Nature, 366, 1993, pp 324-327  ## DE Goodwin, J.T. et al., "Template-Directed Synthesis: Use of a Reversible Reaction", J. Am. Chem. Soc., Vol. 114, pp. 9197-9198, 1992.  ## DB Heller, M. J., IEEE Engineering In Medicine & Biology, March/April 1996, 100-104  ## An Active Microelectronics Device For Multiplex DNA Analysis  ## DB Heller, M. J., IEEE Engineering In Medicine & Biology, March/April 1996, 100-104  ## An Active Microelectronics Device For Multiplex DNA Analysis  ## DB Marshall, A. et al., Nature Biotechnology, vol. 16, 1998, pp 27-31  ## DB Miculka, C. et al., Encora Analysis In Chemistry, John Wile	<i>V</i>		
Nov., 1992    Policy et al., "Isolation of Multigene Families and Determination of Homologies by Filter Hybridization Methods," Methods in Enzymology, 100:266-285 (1983)   Nov.			
Methods," Methods in Enzymology, 100.266-285 (1983)  W. CTB Brady, A. et al., J.Chem.Soc., Perkin Trans., 1, 1997, pp. 3237-3253  W. Jet Cheng J. et al., Nature/Biotechnology, 16, 6/98, pp 541-546  W. Jet Chu, B.C.F. et al., "Ligation of oligonucleotides to nucleic acids or proteins via disulfide bonds", Nucleic Acids Research, Vol. 16, No. 9, pp. 3671-3691, 1988.  W. Conner et al., "Detection of Sickle Cell "Sciobin Allele by Hybridization With Synthetic Oligonucleotides," Proc. Natl. Acad. Sci. USA, 80:278-282 (1983)  Drmanac et al., "DNA Sequence Determination by Hybridization: A Strategy for Efficeint Large-Scale Sequencing," Science, 260: 1649-1652 (1993)  Drmanac et al., "Sequencing of Megabase Plus DNA by Hybridization: Theory of the Method," Genomics, 4:114-128 (1989)  W. Z. Edman C.F. et al., "Nucleic Acids Research, 25, 1997, 4907-4914  W. Podor et al., "Hultiplexed Biochemical Assays With Biological Chips," Nature, 364:555-556 (1993)  W. De Froder et al., "Multiplexed Biochemical Assays With Biological Chips," Nature, 364:555-556 (1993)  W. De Ghadiri, M. R. et al., Naterials Characterization Using FT-IR Spectra. Part 2: Mathematical & Statistical Considerations, Applied Spectroscopy, 39, 2, 1989, p. 311  W. De Ghadiri, M. R. et al., Nature, 366, 1993, pp 324-327  De Goodwin, J.T. et al., "Template-Directed Synthesis: Use of a Reversible Reaction", J. Am. Chem. Soc., Vol. 114, pp. 9197-9198, 1992.  W. De Hayakawa Y. et al., JAm.Chem.Soc. 112, 1990, 1691  De Heller, M.J., IEEE Engineering in Medicine & Biology, March/April 1996, 100-104  An Active Microelectronics Device For Multiplex DNA Analysis  W. De Hayakawa Y. et al., Nature Medicine, vol. 2, no. 7, 1996, 753-759  De Heller, M.J., J.Chem.Soc. Chem. Commun., 49, 1990  Marshall, A. et al., Nature Biotechnology, vol. 16, 1998, pp 27-31  DN Miculka, C. et al, European BioPharmaceutical Review, 6/98, pp 52-57	N		(Nov, 1992)
## CFT Brady, A. et al., J.Chem.Soc., Perkin Trans., 1, 1997, pp. 3237-3253  ## Jet Cheng. J. et al., Nature/Biotechnology, 16, 6/98, pp. 541-546  ## Chu, B.C.F. et al., "Ligation of oligonucleotides to nucleic acids or proteins via disulfide bonds", Nucleic Acids Research, Vol. 16, No. 9, pp. 3671-3691, 1988.  ## Conner et al., "Detection of Sickle Cell "-Globin Aliele by Hybridization With Synthetic Oligonucleotides," Proc. Natl. Acad. Sci. USA, 80:278-282 (1983)  ## Conner et al., "DNA Sequence Determination by Hybridixation: A Strategy for Efficient Large-Scale Sequencing," Science, 260: 1649-1652 (1993)  ## Proc. Natl. Acad. Sci. USA, 80:278-282 (1983)  ## Prod. Proc. Natl. Acad. Sci. USA, 94, 1997, pp. 4907-4914  ## Podor et al., "Sequencing of Megabase Plus DNA by Hybridization: Theory of the Method," Genomics, 4:114-128 (1989)  ## Podor et al., "Injuht-Directed, Spatially Addressable Parallel Chemical Synthesis," Science, 251:767-773 (1992)  ## Podor et al., "Multiplexed Biochemical Assays With Biological Chips," Nature, 364:555-556 (1993)  ## Predericks P.M., et al., Materials Characterization Using FT-IR Spectra. Part 2: Mathematical & Statistical Considerations, Applied Spectroscopy, 39, 2, 1989, p. 311  ## Pod Ghadiri, M. R. et al., Nature, 366, 1993, pp 324-327  ## Predericks P.M., et al., Nature, 366, 1993, pp 324-327  ## Predericks P.M., et al., Nature, 366, 1993, pp 324-327  ## Predericks P.M., et al., Nature, 366, 1993, pp 324-327  ## Predericks P.M., et al., Nature, 366, 1993, pp 324-327  ## Predericks P.M., et al., Nature Biotechnology, vol. 22, no. 24, 1994, pp 5456-5465, Direct Fluorescence Analysis Of Genetic Polymorphism By Hybridization With Olognucleotide Arrays  ## Hayakawa Y. et al., J.Am.Chem.Soc. 112, 1990, 1691  ## Heiler, M.J., IEEE Engineering In Medicine & Biology, March/April 1996, 100-104  ## An Active Microelectronics Device For Multiplex DNA Analysis  ## Malinowski E.R. et al, Factor Analysis In Chemistry, John Wiley & Sons, New York, 1980  ## Marshall, A. et al, Nature Biot	W/	_GS_	
Cheng J. et al., Nature/Biotechnology, 16, 6/98, pp 541-546  Chu, B.C.F. et al., "Ligation of oligonucleotides to nucleic acids or proteins via disulfide bonds", Nucleic Acids Research, Vol. 16, No. 9, pp. 3671-3691, 1988.  Conner et al., "Detection of Sickle Cell "-Globin Allele by Hybridization With Synthetic Oligonucleotides," Proc. Natl. Acad. Sci. USA, 80:278-282 (1983)  Drmanac et al., "DNA Sequence Determination by Hybridization: A Strategy for Efficient Large-Scale Sequencing," Science, 260: 1649-1652 (1993)  Drmanac et al., "Sequencing of Megabase Plus DNA by Hybridization: Theory of the Method," Genomics, 4:114-128 (1989)  EZ Edman C.F. et al., Nucleic Acids Research, 25, 1997, 4907-4914  Poder et al., "Light-Directed, Spatially Addressable Parallel Chemical Synthesis," Science, 251:767-773 (1992)  DB Fodor et al., "Multiplexed Biochemical Assays With Biological Chips," Nature, 364:555-556 (1993)  Predericks P.M., et al., Materials Characterization Using FT-IR Spectra. Part 2: Mathematical & Statistical Considerations, Applied Spectroscopy, 39, 2, 1989, p. 311  DB Ghadiri, M. R. et al., Nature, 366, 1993, pp 324-327  DE Goodwin, J.T. et al., "Template-Directed Synthesis: Use of a Reversible Reaction", J. Am. Chem. Soc., Vol. 114, pp. 9197-9198, 1992.  DF Guo Z. et al., Nucleic Acids Res, vol. 22, no. 24, 1994, pp 5456-5465, Direct Fluorescence Analysis Of Genetic Polymorphism By Hybridization With Olognucleotide Arrays  DH Heller, M.J., IEEE Engineering In Medicine & Biology, March/April 1996, 100-104  An Active Microelectronics Device For Multiplex DNA Analysis  DH Lehn, J.M., J.Chem.Soc. Chem. Commun., 49, 1990, pp 2106-2110  DM Marshall, A. et al., Nature Medicine, vol. 2, no. 7, 1996, 753-759  DM Malinowski E.R. et al., Factor Analysis In Chemistry, John Wiley & Sons, New York, 1980  Marshall, A. et al., Rature Biotechnology, vol. 16, 1998, pp 52-57	1/	CIE	
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Acids Research, Vol. 16, No. 9, pp. 3671-3691, 1988.  Conner et al., "Detection of Sickle Cell" 3-(Globin Allele by Hybridization With Synthetic Oligonucleotides," Proc. Natl. Acad. Sci. USA, 80:278-282 (1983)  CX Drmanac et al., "DNA Sequence Determination by Hybridixation: A Strategy for Efficeint Large-Scale Sequencing," Science, 260: 1649-1652 (1993)  Drmanac et al., "Sequencing of Megabase Plus DNA by Hybridization: Theory of the Method," Genomics, 4:114-128 (1989)  Edman C.F. et al., Nucleic Acids Research, 25, 1997, 4907-4914  PA Fodor et al., "Light-Directed, Spatially Addressable Parallel Chemical Synthesis," Science, 251:767-773 (1992)  DB Fodor et al., "Multiplexed Biochemical Assays With Biological Chips," Nature, 364:555-556 (1993)  DC Fredericks P.M., et al., Materials Characterization Using FT-IR Spectra. Part 2: Mathematical & Statistical Considerations, Applied Spectroscopy, 39, 2, 1989, p. 311  DD Ghadiri, M. R. et al., Nature, 366, 1993, pp 324-327  DE Goodwin, J.T. et al., "Template-Directed Synthesis: Use of a Reversible Reaction", J. Am. Chem. Soc., Vol. 114, pp. 9197-9198, 1992.  DF Guo Z. et al., Nucleic Acids Res, vol. 22, no. 24, 1994, pp 5456-5465, Direct Fluorescence Analysis Of Genetic Polymorphism By Hybridization With Olognucleotide Arrays  DF Hayakawa Y. et al., J.Am.Chem.Soc. 112, 1990, 1691  DH Heller, M.J., IEEE Engineering In Medicine & Biology, March/April 1996, 100-104  An Active Microelectronics Device For Multiplex DNA Analysis  DH Huc, I., Lehn, J.M., Proc.Nat.Acad.Sci.USA, 94, 1997, pp 2106-2110  DF Huc, I., Lehn, J.M., Proc.Nat.Acad.Sci.USA, 94, 1997, pp 2106-2110  DF Huc, I., Lehn, J.M., J.Chem.Soc. Chem. Commun., 49, 1990  Malinowski E.R. et al., Factor Analysis In Chemistry, John Wiley & Sons, New York, 1980  Marshall, A. et al, Nature Biotechnology, vol. 16, 1998, pp 27-31  DN Miculka, C. et al, European BioPharmaceutical Review, 6/98, pp 52-57			Chu. B.C.F. et al. "Ligation of oligonucleotides to nucleic acids or proteins via disulfide bonds". <i>Nucleic</i>
Conner et al., "Detection of Sickle Cell "-Globin Allele by Hybridization With Synthetic Oligonucleotides," Proc. Natl., Acad. Sci. USA, 80:278-282 (1983)  CX Dirmanac et al., "DNA Sequence Determination by Hybridization: A Strategy for Efficient Large-Scale Sequencing," Science, 260: 1649-1652 (1993)  Drmanac et al., "Sequencing of Megabase Plus DNA by Hybridization: Theory of the Method," Genomics, 4:114-128 (1989)  Drmanac et al., "Light-Directed, Spatially Addressable Parallel Chemical Synthesis," Science, 251:767-773 (1992)  DB Fodor et al., "Light-Directed, Spatially Addressable Parallel Chemical Synthesis," Science, 251:767-773 (1992)  DB Fodor et al., "Multiplexed Biochemical Assays With Biological Chips," Nature, 364:555-556 (1993)  PF Fodor et al., "Multiplexed Biochemical Assays With Biological Chips," Nature, 364:555-556 (1993)  DC Fredericks P.M., et al., Materials Characterization Using FT-IR Spectra. Part 2: Mathematical & Statistical Considerations, Applied Spectroscopy, 39, 2, 1989, p. 311  DB Ghadiri, M. R. et al., Nature, 366, 1993, pp 324-327  DF Goodwin, J.T. et al., "Template-Directed Synthesis: Use of a Reversible Reaction", J. Am. Chem. Soc., Vol. 114, pp. 9197-9198, 1992.  DF Guo Z. et al., Nucleic Acids Res, vol. 22, no. 24, 1994, pp 5456-5465, Direct Fluorescence Analysis Of Genetic Polymorphism By Hybridization With Olognucleotide Arrays  DF Hayakawa Y. et al, J.Am.Chem.Soc. 112, 1990, 1691  DH Heller, M.J., IEEE Engineering In Medicine & Biology, March/April 1996, 100-104  An Active Microelectronics Device For Multiplex DNA Analysis  DF Mozal M.J. et al., Nature Medicine, vol. 2, no. 7, 1996, 753-759  DF Malinowski E.R. et al, Factor Analysis In Chemistry, John Wiley & Sons, New York, 1980  Marshall, A. et al, Nature Biotechnology, vol. 16, 1998, pp 27-31  DN Miculka, C. et al, European BioPharmaceutical Review, 6/98, pp 52-57	W		
Oligonucleotides," Proc. Natl. Acad. Sci. USA, 80:278-282 (1983)  Drmanac et al., "DNA Sequence Determination by Hybridixation: A Strategy for Efficeint Large-Scale Sequencing," Science, 260: 1649-1652 (1993)  Drmanac et al., "Sequencing of Megabase Plus DNA by Hybridization: Theory of the Method," Genomics, 4:114-128 (1989)  Edman C.F. et al., Nucleic Acids Research, 25, 1997, 4907-4914  Fodor et al., "Light-Directed, Spatially Addressable Parallel Chemical Synthesis," Science, 251:767-773 (1992)  DB Fodor et al., "Multiplexed Biochemical Assays With Biological Chips," Nature, 364:555-556 (1993)  Fredericks P.M., et al., Materials Characterization Using FT-IR Spectra. Part 2: Mathematical & Statistical Considerations, Applied Spectroscopy, 39, 2, 1989, p. 311  DB Ghadiri, M. R. et al., Nature, 366, 1993, pp 324-327  DF Goodwin, J.T. et al., "Template-Directed Synthesis: Use of a Reversible Reaction", J. Am. Chem. Soc., Vol. 114, pp. 9197-9198, 1992.  DF Guo Z. et al., Nucleic Acids Res, vol. 22, no. 24, 1994, pp 5456-5465, Direct Fluorescence Analysis Of Genetic Polymorphism By Hybridization With Olognucleotide Arrays  DF Haller, M.J., IEEE Engineering In Medicine & Biology, March/April 1996, 100-104  An Active Microelectronics Device For Multiplex DNA Analysis  DF Huc, I., Lehn, J.M., Proc.Nat.Acad.Sci.USA, 94, 1997, pp 2106-2110  DF Mc Lehn J.M., J.Chem.Soc. Chem. Commun., 49, 1990  DF Malinowski E.R. et al, Factor Analysis In Chemistry, John Wiley & Sons, New York, 1980  DF Marshall, A. et al, Nature Biotechnology, vol. 16, 1998, pp 27-31  DN Miculka, C. et al, European BioPharmaceutical Review, 6/98, pp 52-57	4.	ØW.	Conner et al., "Detection of Sickle Cell 3-Globin Allele by Hybridization With Synthetic
Drmanac et al., "DNA Sequence Determination by Hybridixation: A Strategy for Efficeint Large-Scale Sequencing," Science, 260: 1649-1652 (1993)  Drmanac et al., "Sequencing of Megabase Plus DNA by Hybridization: Theory of the Method," Genomics, 4:114-128 (1989)  Edman C.F. et al., Nucleic Acids Research, 25, 1997, 4907-4914  DA Fodor et al., "Light-Directed, Spatially Addressable Parallel Chemical Synthesis," Science, 251:767-773 (1992)  DB Fodor et al., "Multiplexed Biochemical Assays With Biological Chips," Nature, 364:555-556 (1993)  Fredericks P.M., et al., Materials Characterization Using FT-IR Spectra. Part 2: Mathematical & Statistical Considerations, Applied Spectroscopy, 39, 2, 1989, p. 311  DB Ghadiri, M. R. et al., Nature, 366, 1993, pp 324-327  Goodwin, J.T. et al., "Template-Directed Synthesis: Use of a Reversible Reaction", J. Am. Chem. Soc., Vol. 114, pp. 9197-9198, 1992.  DF Guo Z. et al., Nucleic Acids Res, vol. 22, no. 24, 1994, pp 5456-5465, Direct Fluorescence Analysis Of Genetic Polymorphism By Hybridization With Olognucleotide Arrays  Hayakawa Y. et al., J.Am.Chem.Soc. 112, 1990, 1691  DH Heller, M.J., IEEE Engineering In Medicine & Biology, March/April 1996, 100-104  An Active Microelectronics Device For Multiplex DNA Analysis  DH Huler, M.J., Lehn, J.M., Proc.Nat.Acad.Sci.USA, 94, 1997, pp 2106-2110  DK Kozal M.J. et al., Nature Medicine, vol. 2, no. 7, 1996, 753-759  DK Lehn J.M., J.Chem.Soc. Chem. Commun., 49, 1990  Malinowski E.R. et al, Factor Analysis In Chemistry, John Wiley & Sons, New York, 1980  Marshall, A. et al, Nature Biotechnology, vol. 16, 1998, pp 27-31  DN Miculka, C. et al, European BioPharmaceutical Review, 6/98, pp 52-57	$\sqrt{V}$		
Drmanac et al., "Sequencing of Megabase Plus DNA by Hybridization: Theory of the Method," Genomics, 4:114-128 (1989)  Edman C.F. et al., Nucleic Acids Research, 25, 1997, 4907-4914  Podor et al., "Light-Directed, Spatially Addressable Parallel Chemical Synthesis," Science, 251:767-773 (1992)  DB Fodor et al., "Multiplexed Biochemical Assays With Biological Chips," Nature, 364:555-556 (1993)  Predericks P.M., et al., Materials Characterization Using FT-IR Spectra. Part 2: Mathematical & Statistical Considerations, Applied Spectroscopy, 39, 2, 1989, p. 311  DD Ghadiri, M. R. et al., Nature, 366, 1993, pp 324-327  DE Goodwin, J.T. et al., "Template-Directed Synthesis: Use of a Reversible Reaction", J. Am. Chem. Soc., Vol. 114, pp. 9197-9198, 1992.  DE Guo Z. et al., Nucleic Acids Res, vol. 22, no. 24, 1994, pp 5456-5465, Direct Fluorescence Analysis Of Genetic Polymorphism By Hybridization With Olognucleotide Arrays  DE Hayakawa Y. et al., J.Am.Chem.Soc. 112, 1990, 1691  DH Heller, M.J., IEEE Engineering In Medicine & Biology, March/April 1996, 100-104  An Active Microelectronics Device For Multiplex DNA Analysis  DE Huc, I., Lehn, J.M., Proc.Nat.Acad.Sci.USA, 94, 1997, pp 2106-2110  W DJ Kozal M.J. et al., Nature Medicine, vol. 2, no. 7, 1996, 753-759  DK Lehn J.M., J.Chem.Soc. Chem. Commun., 49, 1990  Marshall, A. et al, Nature Biotechnology, vol. 16, 1998, pp 27-31  DN Miculka, C. et al, European BioPharmaceutical Review, 6/98, pp 52-57		CX	
Genomics, 4:114-128 (1989)  Edman C.F. et al., Nucleic Acids Research, 25, 1997, 4907-4914  Prodor et al., "Light-Directed, Spatially Addressable Parallel Chemical Synthesis," Science, 251:767-773 (1992)  DB Fodor et al., "Multiplexed Biochemical Assays With Biological Chips," Nature, 364:555-556 (1993)  Predericks P.M., et al., Materials Characterization Using FT-IR Spectra. Part 2: Mathematical & Statistical Considerations, Applied Spectroscopy, 39, 2, 1989, p. 311  W DB Ghadiri, M. R. et al., Nature, 366, 1993, pp 324-327  Goodwin, J.T. et al., "Template-Directed Synthesis: Use of a Reversible Reaction", J. Am. Chem. Soc., Vol. 114, pp. 9197-9198, 1992.  W DF Guo Z. et al., Nucleic Acids Res, vol. 22, no. 24, 1994, pp 5456-5465, Direct Fluorescence Analysis Of Genetic Polymorphism By Hybridization With Olognucleotide Arrays  W DF Hayakawa Y. et al, J.Am.Chem.Soc. 112, 1990, 1691  DH Heller, M.J., IEEE Engineering In Medicine & Biology, March/April 1996, 100-104  An Active Microelectronics Device For Multiplex DNA Analysis  W DF Kozal M.J. et al., Nature Medicine, vol. 2, no. 7, 1996, 753-759  W DK Lehn J.M., J.Chem.Soc. Chem. Commun., 49, 1990  W Marshall, A. et al., Nature Biotechnology, vol. 16, 1998, pp 27-31  DN Miculka, C. et al, European BioPharmaceutical Review, 6/98, pp 52-57	VV		
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Podor et al., "Light-Directed, Spatially Addressable Parallel Chemical Synthesis," Science, 251:767-773 (1992)  DB Fodor et al., "Multiplexed Biochemical Assays With Biological Chips," Nature, 364:555-556 (1993)  Podor et al., "Multiplexed Biochemical Assays With Biological Chips," Nature, 364:555-556 (1993)  Podor Eredericks P.M., et al., Materials Characterization Using FT-IR Spectra. Part 2: Mathematical & Statistical Considerations, Applied Spectroscopy, 39, 2, 1989, p. 311  Pod Ghadiri, M. R. et al., Nature, 366, 1993, pp 324-327  Pod Goodwin, J.T. et al., "Template-Directed Synthesis: Use of a Reversible Reaction", J. Am. Chem. Soc., Vol. 114, pp. 9197-9198, 1992.  Pod Guo Z. et al., Nucleic Acids Res, vol. 22, no. 24, 1994, pp 5456-5465, Direct Fluorescence Analysis Of Genetic Polymorphism By Hybridization With Olognucleotide Arrays  Pod Hayakawa Y. et al., J.Am.Chem.Soc. 112, 1990, 1691  Pod Heller, M.J., IEEE Engineering In Medicine & Biology, March/April 1996, 100-104  An Active Microelectronics Device For Multiplex DNA Analysis  Pod Huc, I., Lehn, J.M., Proc.Nat.Acad.Sci.USA, 94, 1997, pp 2106-2110  Pod Kozal M.J. et al., Nature Medicine, vol. 2, no. 7, 1996, 753-759  Diff Malinowski E.R. et al, Factor Analysis In Chemistry, John Wiley & Sons, New York, 1980  Pod Marshall, A. et al, Nature Biotechnology, vol. 16, 1998, pp 27-31  DN Miculka, C. et al, European BioPharmaceutical Review, 6/98, pp 52-57	_W	Li	
Fredericks P.M., et al., Materials Characterization Using FT-IR Spectra. Part 2: Mathematical & Statistical Considerations, Applied Spectroscopy, 39, 2, 1989, p. 311  W DD Ghadiri, M. R. et al., Nature, 366, 1993, pp 324-327  Goodwin, J.T. et al., "Template-Directed Synthesis: Use of a Reversible Reaction", J. Am. Chem. Soc., Vol. 114, pp. 9197-9198, 1992.  DF Guo Z. et al., Nucleic Acids Res, vol. 22, no. 24, 1994, pp 5456-5465, Direct Fluorescence Analysis Of Genetic Polymorphism By Hybridization With Olognucleotide Arrays  Hayakawa Y. et al, J.Am.Chem.Soc. 112, 1990, 1691  DH Heller, M.J., IEEE Engineering In Medicine & Biology, March/April 1996, 100-104  An Active Microelectronics Device For Multiplex DNA Analysis  M DH Huc, I., Lehn, J.M., Proc.Nat.Acad.Sci.USA, 94, 1997, pp 2106-2110  Kozal M.J. et al., Nature Medicine, vol. 2, no. 7, 1996, 753-759  DK Lehn J.M., J.Chem.Soc. Chem. Commun., 49, 1990  Malinowski E.R. et al, Factor Analysis In Chemistry, John Wiley & Sons, New York, 1980  M Marshall, A. et al, Nature Biotechnology, vol. 16, 1998, pp 27-31  DN Miculka, C. et al, European BioPharmaceutical Review, 6/98, pp 52-57	_	DA	
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Ghadiri, M. R. et al., Nature, 366, 1993, pp 324-327  Goodwin, J.T. et al., "Template-Directed Synthesis: Use of a Reversible Reaction", J. Am. Chem. Soc., Vol. 114, pp. 9197-9198, 1992.  Guo Z. et al., Nucleic Acids Res, vol. 22, no. 24, 1994, pp 5456-5465, Direct Fluorescence Analysis Of Genetic Polymorphism By Hybridization With Olognucleotide Arrays  Hayakawa Y. et al, J.Am.Chem.Soc. 112, 1990, 1691  DH Heller, M.J., IEEE Engineering In Medicine & Biology, March/April 1996, 100-104  An Active Microelectronics Device For Multiplex DNA Analysis  Huc, I., Lehn, J.M., Proc.Nat.Acad.Sci.USA, 94, 1997, pp 2106-2110  Kozal M.J. et al., Nature Medicine, vol. 2, no. 7, 1996, 753-759  DK Lehn J.M., J.Chem.Soc. Chem. Commun., 49, 1990  Malinowski E.R. et al, Factor Analysis In Chemistry, John Wiley & Sons, New York, 1980  Marshall, A. et al, Nature Biotechnology, vol. 16, 1998, pp 27-31  DN Miculka, C. et al, European BioPharmaceutical Review, 6/98, pp 52-57	W	De	
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• [	U DR	Sosnowski R. et al., Proc. Natl.Acad.Sci, 94, 1997, 1119-1123				
	W ØS	Southern et al., "Analyzing and Comparing Nucleic Acid Sequences by Hybridization to Arrays of Oligonucleotides Evaluation Using Experimental Models," Genomics, 13:1008-1017 (1992)				
	V D8	Strezoska et al., "DNA Sequencing by Hybridization: 100 Bases Read by a Non-Gel-Based Method", Proc. Natl. Acad, Sci. USA, 88:10089-93 (1991)				
	W DW	Taylor P. et al, Principles Of Drug Action-The Basis Of Pharmacology, Edited by W.B. Pratt, P. Taylor, Third Edition, Churchill Livingston, 1990, pp 1-74.				
	W	Wallace et al., "Hybridization of Synthetic Oligodexribonucleotides to x 174 DNA: The Effect of Single Base Pair Mismatch," Nucleic Acid Res., 6:3543-3557 (1979)				
	√ DW	Westin, L., et al., "Antimicrobial Resistance and Bacterial Identification Utilizing a Microelectronic Chip Array", J. Clinical Microbiol., Vol. 39, No. 3, pp. 1097-1104, 2001.				
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